IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/812,731

DATE: 07/27/2004
TIME: 12:35:51

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
 3 <110> APPLICANT: Liew, Choong-Chin
 5 <120> TITLE OF INVENTION: Method for the Detection of Scizophrenia Related Gene
Transcripts in
 6      Blood
 8 <130> FILE REFERENCE: 4231/2055P
10 <140> CURRENT APPLICATION NUMBER: 10/812,731
11 <141> CURRENT FILING DATE: 2004-03-30
13 <150> PRIOR APPLICATION NUMBER: US 10/802,875
14 <151> PRIOR FILING DATE: 2004-03-12
16 <150> PRIOR APPLICATION NUMBER: US 10/601,518
17 <151> PRIOR FILING DATE: 2003-06-20
19 <150> PRIOR APPLICATION NUMBER: US 10/268,730
20 <151> PRIOR FILING DATE: 2002-10-09
22 <150> PRIOR APPLICATION NUMBER: US 10/085,783
23 <151> PRIOR FILING DATE: 2002-02-28
25 <150> PRIOR APPLICATION NUMBER: US 09/477,148
26 <151> PRIOR FILING DATE: 2000-01-04
28 <150> PRIOR APPLICATION NUMBER: US 60/271,955
29 <151> PRIOR FILING DATE: 2001-02-28
31 <150> PRIOR APPLICATION NUMBER: US 60/305,340
32 <151> PRIOR FILING DATE: 2001-07-13
34 <150> PRIOR APPLICATION NUMBER: US 60/275,017
35 <151> PRIOR FILING DATE: 2001-03-12
37 <150> PRIOR APPLICATION NUMBER: US 60/115,125
38 <151> PRIOR FILING DATE: 1999-01-06
40 <160> NUMBER OF SEQ ID NOS: 112
42 <170> SOFTWARE: PatentIn version 3.2
44 <210> SEQ ID NO: 1
45 <211> LENGTH: 110
46 <212> TYPE: DNA
47 <213> ORGANISM: Human
49 <400> SEQUENCE: 1
50 acacaacgta acaataacat atttagccaa tgtagtagac tgctatataa tacattagag      60
52 tgtcaattca ttccgtttac agccccattg ggtgtcaaat ttttttgtt             110
55 <210> SEQ ID NO: 2
56 <211> LENGTH: 530
57 <212> TYPE: DNA
58 <213> ORGANISM: Human
61 <220> FEATURE:
62 <221> NAME/KEY: misc_feature
63 <222> LOCATION: (16)..(16)
64 <223> OTHER INFORMATION: n is a, c, g, or t
66 <220> FEATURE:
67 <221> NAME/KEY: misc_feature
```

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/812,731**

DATE: 07/27/2004
TIME: 12:35:51

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
68  <222> LOCATION: (19)..(19)
69  <223> OTHER INFORMATION: n is a, c, g, or t
71  <220> FEATURE:
72  <221> NAME/KEY: misc_feature
73  <222> LOCATION: (25)..(25)
74  <223> OTHER INFORMATION: n is a, c, g, or t
76  <220> FEATURE:
77  <221> NAME/KEY: misc_feature
78  <222> LOCATION: (38)..(38)
79  <223> OTHER INFORMATION: n is a, c, g, or t
81  <220> FEATURE:
82  <221> NAME/KEY: misc_feature
83  <222> LOCATION: (40)..(40)
84  <223> OTHER INFORMATION: n is a, c, g, or t
86  <220> FEATURE:
87  <221> NAME/KEY: misc_feature
88  <222> LOCATION: (42)..(42)
89  <223> OTHER INFORMATION: n is a, c, g, or t
91  <220> FEATURE:
92  <221> NAME/KEY: misc_feature
93  <222> LOCATION: (44)..(44)
94  <223> OTHER INFORMATION: n is a, c, g, or t
96  <220> FEATURE:
97  <221> NAME/KEY: misc_feature
98  <222> LOCATION: (64)..(66)
99  <223> OTHER INFORMATION: n is a, c, g, or t
101 <220> FEATURE:
102 <221> NAME/KEY: misc_feature
103 <222> LOCATION: (70)..(71)
104 <223> OTHER INFORMATION: n is a, c, g, or t
106 <220> FEATURE:
107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: (81)..(81)
109 <223> OTHER INFORMATION: n is a, c, g, or t
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <222> LOCATION: (86)..(86)
114 <223> OTHER INFORMATION: n is a, c, g, or t
116 <220> FEATURE:
117 <221> NAME/KEY: misc_feature
118 <222> LOCATION: (89)..(89)
119 <223> OTHER INFORMATION: n is a, c, g, or t
121 <220> FEATURE:
122 <221> NAME/KEY: misc_feature
123 <222> LOCATION: (117)..(117)
124 <223> OTHER INFORMATION: n is a, c, g, or t
126 <220> FEATURE:
127 <221> NAME/KEY: misc_feature
128 <222> LOCATION: (121)..(121)
```

RAW SEQUENCE LISTING   DATE: 07/27/2004
PATENT APPLICATION: **US/10/812,731**   TIME: 12:35:51

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
129 <223> OTHER INFORMATION: n is a, c, g, or t
131 <220> FEATURE:
132 <221> NAME/KEY: misc_feature
133 <222> LOCATION: (123)..(123)
134 <223> OTHER INFORMATION: n is a, c, g, or t
136 <220> FEATURE:
137 <221> NAME/KEY: misc_feature
138 <222> LOCATION: (135)..(135)
139 <223> OTHER INFORMATION: n is a, c, g, or t
141 <220> FEATURE:
142 <221> NAME/KEY: misc_feature
143 <222> LOCATION: (143)..(143)
144 <223> OTHER INFORMATION: n is a, c, g, or t
146 <220> FEATURE:
147 <221> NAME/KEY: misc_feature
148 <222> LOCATION: (177)..(177)
149 <223> OTHER INFORMATION: n is a, c, g, or t
151 <220> FEATURE:
152 <221> NAME/KEY: misc_feature
153 <222> LOCATION: (179)..(179)
154 <223> OTHER INFORMATION: n is a, c, g, or t
156 <220> FEATURE:
157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (181)..(181)
159 <223> OTHER INFORMATION: n is a, c, g, or t
161 <220> FEATURE:
162 <221> NAME/KEY: misc_feature
163 <222> LOCATION: (193)..(194)
164 <223> OTHER INFORMATION: n is a, c, g, or t
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (209)..(210)
169 <223> OTHER INFORMATION: n is a, c, g, or t
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (215)..(215)
174 <223> OTHER INFORMATION: n is a, c, g, or t
176 <220> FEATURE:
177 <221> NAME/KEY: misc_feature
178 <222> LOCATION: (217)..(217)
179 <223> OTHER INFORMATION: n is a, c, g, or t
181 <220> FEATURE:
182 <221> NAME/KEY: misc_feature
183 <222> LOCATION: (221)..(221)
184 <223> OTHER INFORMATION: n is a, c, g, or t
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: (228)..(228)
189 <223> OTHER INFORMATION: n is a, c, g, or t
```

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/812,731**

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
191 <220> FEATURE:
192 <221> NAME/KEY: misc_feature
193 <222> LOCATION: (233)..(233)
194 <223> OTHER INFORMATION: n is a, c, g, or t
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (236)..(236)
199 <223> OTHER INFORMATION: n is a, c, g, or t
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (243)..(243)
204 <223> OTHER INFORMATION: n is a, c, g, or t
206 <220> FEATURE:
207 <221> NAME/KEY: misc_feature
208 <222> LOCATION: (251)..(254)
209 <223> OTHER INFORMATION: n is a, c, g, or t
211 <220> FEATURE:
212 <221> NAME/KEY: misc_feature
213 <222> LOCATION: (270)..(270)
214 <223> OTHER INFORMATION: n is a, c, g, or t
216 <220> FEATURE:
217 <221> NAME/KEY: misc_feature
218 <222> LOCATION: (272)..(272)
219 <223> OTHER INFORMATION: n is a, c, g, or t
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (274)..(275)
224 <223> OTHER INFORMATION: n is a, c, g, or t
226 <220> FEATURE:
227 <221> NAME/KEY: misc_feature
228 <222> LOCATION: (283)..(283)
229 <223> OTHER INFORMATION: n is a, c, g, or t
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (292)..(293)
234 <223> OTHER INFORMATION: n is a, c, g, or t
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (299)..(299)
239 <223> OTHER INFORMATION: n is a, c, g, or t
241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <222> LOCATION: (303)..(303)
244 <223> OTHER INFORMATION: n is a, c, g, or t
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature
248 <222> LOCATION: (307)..(307)
249 <223> OTHER INFORMATION: n is a, c, g, or t
251 <220> FEATURE:
```

RAW SEQUENCE LISTING   DATE: 07/27/2004
PATENT APPLICATION: US/10/812,731   TIME: 12:35:51

Input Set : A:\PTO.LM.TXT
Output Set: N:\CRF4\07272004\J812731.raw

```
252 <221> NAME/KEY: misc_feature
253 <222> LOCATION: (312)..(312)
254 <223> OTHER INFORMATION: n is a, c, g, or t
256 <220> FEATURE:
257 <221> NAME/KEY: misc_feature
258 <222> LOCATION: (319)..(319)
259 <223> OTHER INFORMATION: n is a, c, g, or t
261 <220> FEATURE:
262 <221> NAME/KEY: misc_feature
263 <222> LOCATION: (324)..(325)
264 <223> OTHER INFORMATION: n is a, c, g, or t
266 <220> FEATURE:
267 <221> NAME/KEY: misc_feature
268 <222> LOCATION: (328)..(329)
269 <223> OTHER INFORMATION: n is a, c, g, or t
271 <220> FEATURE:
272 <221> NAME/KEY: misc_feature
273 <222> LOCATION: (342)..(342)
274 <223> OTHER INFORMATION: n is a, c, g, or t
276 <220> FEATURE:
277 <221> NAME/KEY: misc_feature
278 <222> LOCATION: (345)..(345)
279 <223> OTHER INFORMATION: n is a, c, g, or t
281 <220> FEATURE:
282 <221> NAME/KEY: misc_feature
283 <222> LOCATION: (366)..(366)
284 <223> OTHER INFORMATION: n is a, c, g, or t
286 <220> FEATURE:
287 <221> NAME/KEY: misc_feature
288 <222> LOCATION: (377)..(377)
289 <223> OTHER INFORMATION: n is a, c, g, or t
291 <220> FEATURE:
292 <221> NAME/KEY: misc_feature
293 <222> LOCATION: (382)..(382)
294 <223> OTHER INFORMATION: n is a, c, g, or t
296 <220> FEATURE:
297 <221> NAME/KEY: misc_feature
298 <222> LOCATION: (391)..(391)
299 <223> OTHER INFORMATION: n is a, c, g, or t
301 <220> FEATURE:
302 <221> NAME/KEY: misc_feature
303 <222> LOCATION: (395)..(395)
304 <223> OTHER INFORMATION: n is a, c, g, or t
306 <220> FEATURE:
307 <221> NAME/KEY: misc_feature
308 <222> LOCATION: (400)..(400)
309 <223> OTHER INFORMATION: n is a, c, g, or t
311 <220> FEATURE:
312 <221> NAME/KEY: misc_feature
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/27/2004
PATENT APPLICATION: US/10/812,731   TIME: 12:35:52

Input Set : A:\PTO.LM.TXT
Output Set: N:\CRF4\07272004\J812731.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:2; N Pos. 16,19,25,38,40,42,44,64,65,66,70,71,81,86,89,117,121,123,135
Seq#:2; N Pos. 143,177,179,181,193,194,209,210,215,217,221,228,233,236,243
Seq#:2; N Pos. 251,252,253,254,270,272,274,275,283,292,293,299,303,307,312
Seq#:2; N Pos. 319,324,325,328,329,342,345,366,377,382,391,395,400,412,413
Seq#:2; N Pos. 422,424,426,433,439,442,452,460,463,471,495,500,504,516
Seq#:5; N Pos. 13,14,16,20,21,25,26,27,28,42,52,55,57,59,63,65,68,72,74,77
Seq#:5; N Pos. 91,102,117,127,128,169,172,192,203,243,244,248,249,253,283
Seq#:5; N Pos. 288,299,318,327,334,348,359,360
Seq#:6; N Pos. 475,556,559,585,606,644,671,693,695,714,742,744,756,765,768
Seq#:6; N Pos. 808,815,823,830,837
Seq#:10; N Pos. 433,600,615,626,645,661
Seq#:14; N Pos. 6,15,37,38,47,56,57,94,127,155,157
Seq#:16; N Pos. 5,15,39,47,52,69,154,207,217
Seq#:17; N Pos. 18,19,27,47,66,76,82,108,133,162,210,260,276
Seq#:19; N Pos. 17,40,59,76,107,165,189,216,221,230
Seq#:21; N Pos. 17,23,28,36,41,44,53,59,62,67,70,71,74,76,79,83,84,86,97
Seq#:22; N Pos. 2,17,37,52,53,56,77,85,89,96
Seq#:23; N Pos. 17,19,27,28,29,37,38,46,49,65,72
Seq#:24; N Pos. 5,13,71,88,91,109,157,177,199,207,211
Seq#:26; N Pos. 299,333,353,410,411,460,474,479
Seq#:27; N Pos. 348,422,435,476,490
Seq#:28; N Pos. 18,47,59,74,138,174,176,211
Seq#:29; N Pos. 1,2,12,29,34
Seq#:30; N Pos. 3,4,5,6,8,13,15,20,27,32,33,40,49,50,57,63,67,69,76,78,87
Seq#:30; N Pos. 89
Seq#:31; N Pos. 12,26,46,49,55,60,63,69,70,73,79,92,96
Seq#:32; N Pos. 2,7,27,34,57,63,64,67,73,75,76,77,78,80,90,96,97,98
Seq#:33; N Pos. 5,12,28,32,38,44,57,68,76,82,92
Seq#:34; N Pos. 3,21,27,28,38,47,50,53,61,73,78,83,85,97
Seq#:35; N Pos. 21,22,28,32,65,67,68,70,77,83,92
Seq#:36; N Pos. 4,8,29,43,44,46,57,59,84,98,115,117,118
Seq#:37; N Pos. 7,10,53,61,65,66,72,74,75,89,94,100,107,126,141
Seq#:38; N Pos. 2,10,61,63,72,79
Seq#:39; N Pos. 5,7,8,10,15,16,20,24,71
Seq#:40; N Pos. 80,91
Seq#:42; N Pos. 14,31,36,63,73,93,98
Seq#:44; N Pos. 2,11,27,28,34,38,39,41,49,50,61,62,67,68,76,79,80,85,89,93
Seq#:45; N Pos. 8,24,33,34,47,48,58,63,68,71,73,77,88,95,96
Seq#:46; N Pos. 74
Seq#:47; N Pos. 7,8,17,23,33,42,47,48,52,55,60,62,66,70,71,74,84,86,87,96
Seq#:47; N Pos. 99,100
Seq#:48; N Pos. 5,6,33,35,36,42,46,48,55,59,69,81,87,91,94,97
Seq#:49; N Pos. 20,38,164,178,201,211,274,305,340,346,386,387,405,433,446
Seq#:50; N Pos. 5,6,13,18,22,39,45,48,54,65,70,72,80,83,90,94,96,98,102,104
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/27/2004
PATENT APPLICATION: **US/10/812,731** TIME: 12:35:52

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
Seq#:50; N Pos. 113,115,117,121,123,125,128,142,144,160,174,175,180,181,186
Seq#:50; N Pos. 192,198,205,215,223,224,233,234,238,243,253,257,268,280,291
Seq#:50; N Pos. 296,300,305,308,311,319,322,326,328,334,335,338,339,347,352
Seq#:50; N Pos. 358,361,367,382,389,395,410,413,414,418,425,436,443
Seq#:51; N Pos. 19,59,87,119,203,215,274,296,309,353,425,426,427,431,451
Seq#:51; N Pos. 470,472,478
Seq#:52; N Pos. 13,14,17,20,22,27,29,31,36,43,46,58,59,74,78,81,85,87,88,90
Seq#:52; N Pos. 91,92,95,96,105,107,109,115,116,117,120,123,148,154,155,156
Seq#:52; N Pos. 167,169,170,171,172,179,183,185,186,187,194,200,201,202,203
Seq#:52; N Pos. 205,235,236,242,244,246,247,250,303,305,318,327,331,335,336
Seq#:52; N Pos. 347,349,353,362,365,388,395,405,407,412,416,429,435,444,475
Seq#:52; N Pos. 481,485,488,505,506,507,525,528,532,534,535,543,551,552,553
Seq#:52; N Pos. 555,561,568,573,584,589,598,605,612,618,633,647,653,654,664
Seq#:52; N Pos. 679,689,695,698,711,720
Seq#:53; N Pos. 13,15,37,42,44,45,50,57,58,59,70,74,80
Seq#:55; N Pos. 5,32,40,60,62,76,107,155
Seq#:56; N Pos. 4
Seq#:69; N Pos. 356
Seq#:70; N Pos. 26
Seq#:71; N Pos. 5,19,29,38,42,45,49,61,77,79,88,90,100,110
Seq#:72; N Pos. 151
Seq#:73; N Pos. 7,16,233
Seq#:74; N Pos. 31,32,57
Seq#:76; N Pos. 11,35,37,38,43,56,67,71,75
Seq#:77; N Pos. 6,11
Seq#:78; N Pos. 11,20,24,31,38,53,61,62,66,83,84,92,109,115,146,153,166
Seq#:79; N Pos. 10,20,29,30,35,49,92
Seq#:80; N Pos. 9,88,98,105,107,127,142,147,161,166,167,171,180,196,206
Seq#:81; N Pos. 22,33,34,39
Seq#:82; N Pos. 13,16,33,46,47,78,82,83,121
Seq#:83; N Pos. 8,36
Seq#:84; N Pos. 30
Seq#:89; N Pos. 37,47,108,112,129,134,152,168,196,239
Seq#:91; N Pos. 326,338,339,344
Seq#:92; N Pos. 32,34
Seq#:94; N Pos. 5,25,38,39,44,46,59,66,70,74,80,82,83,84,86,90,91,92,112
Seq#:94; N Pos. 113,117,126,129,133,134,135,136,152,156,157,162,164,165,174
Seq#:94; N Pos. 178,181,185,186,187,190,191,194,206,227,231,235,244,247,251
Seq#:94; N Pos. 255,258,260,261,263,270,273,274,275,276,285,287,291,292,302
Seq#:94; N Pos. 305,306,311,318,319,321,327,328,329,333,348,349,352,357,363
Seq#:94; N Pos. 366,367,369,371,376,377,385,390,398,401,405,420,429,437,440
Seq#:94; N Pos. 442,443,453,455,456,473,474,477,481,487,488,495,496,497,500
Seq#:94; N Pos. 502,506
Seq#:95; N Pos. 11,24,40,48,51,71,80,83,91,95,99,111,115,116,118,121,123
Seq#:95; N Pos. 124,126,129,131,133,135,148,153,170,173,175,177,192,195,196
Seq#:95; N Pos. 198,200,201,211,212,219,222,223,226,231,240,243,244,249,255
Seq#:95; N Pos. 269,280,283,289,293,311,324,326,341,348,350,354,355,367,383
Seq#:95; N Pos. 384,391,398,400
Seq#:96; N Pos. 171,622,628,642,661,668,694,709,710,735,751,752,763,778,782
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 07/27/2004
PATENT APPLICATION: **US/10/812,731**   TIME: 12:35:52

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

Seq#:96; N Pos. 786,788,798
Seq#:98; N Pos. 17
Seq#:99; N Pos. 8,361
Seq#:100; N Pos. 8,39,50,56,71,72,97,110,177
Seq#:101; N Pos. 121

VERIFICATION SUMMARY   DATE: 07/27/2004
PATENT APPLICATION: **US/10/812,731**   TIME: 12:35:52

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
L:387  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:389  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60
L:391  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:120
L:393  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:180
L:395  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:240
L:397  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:300
L:399  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:360
L:401  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:420
L:403  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:480
L:611  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:613  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
L:615  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:120
L:617  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:180
L:619  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:240
L:621  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:300
L:747  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420
L:751  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:540
L:753  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:600
L:755  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:660
L:757  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:720
L:759  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:780
L:856  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:420
L:860  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:540
L:862  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:600
L:864  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:660
L:964  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:966  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:60
L:968  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:120
L:1046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:1048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:120
L:1052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:180
L:1122 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:1124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:60
L:1126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120
L:1128 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:180
L:1130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240
L:1213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:60
L:1217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:120
L:1219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:180
L:1331 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:1333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
L:1388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:1390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:60
L:1440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:1442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:60
L:1507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
```

VERIFICATION SUMMARY   DATE: 07/27/2004
PATENT APPLICATION: **US/10/812,731**   TIME: 12:35:52

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
L:1509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:60
L:1511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:120
L:1513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:240
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:300
L:1589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:360
L:1591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:420
L:1638 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:300
L:1642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:420
L:1644 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:480
L:1694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:1696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:60
L:1698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:120
L:1700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:180
L:1730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:60
L:1899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1901 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:60
L:1971 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1973 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:60
L:2038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:2040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:60
L:2115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:2117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:60
L:2172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:2174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:60
L:2239 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:2241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:60
L:2318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:2320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:60
L:2322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:120
L:2362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:2364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:60
L:2409 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:2411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:60
L:2433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60
L:2497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:2499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:60
L:2594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:2596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:60
L:2666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:2668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:60
L:2685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:60
L:2780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:60
L:2862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:2864 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:60
L:2944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/812,731**

DATE: 07/27/2004
TIME: 12:35:52

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
L:2948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:120
L:2950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:180
L:2952 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:240
L:2954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:300
L:2956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:360
L:2958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:420
L:3318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:3320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:60
L:3322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:120
L:3324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:180
L:3326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:240
L:3328 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:300
L:3330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:360
L:3332 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:420
L:3422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:3424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60
L:3428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:180
L:3430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:240
L:3432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:300
L:3436 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:420
L:3900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:3902 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:60
L:3904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:120
L:3906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:180
L:3908 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:240
L:3910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:300
L:3912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:360
L:3914 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:420
L:3916 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:480
L:3918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:540
L:3920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:600
L:3922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:660
L:3984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:3986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:60
L:4061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:4063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:60
L:4065 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:120
L:4080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:4339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:300
L:4356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
L:4452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:4454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:60
L:4475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:120
L:4510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:4516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:180
L:4546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
L:4617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
L:4619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:60
L:4649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:0
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/812,731**

DATE: 07/27/2004
TIME: 12:35:52

Input Set : **A:\PTO.LM.TXT**
Output Set: **N:\CRF4\07272004\J812731.raw**

```
L:4742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:0
L:4744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:60
L:4746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:120
L:4794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
L:4796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:60
L:4878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:4880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:60
L:4882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:120
L:4884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:180
L:4909 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
L:4968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:0
L:4970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:60
L:4972 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82 after pos.:120
L:5002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:5021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0
L:5167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
L:5169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:60
L:5171 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:120
L:5173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:180
L:5227 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:300
L:5249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:0
L:5671 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:0
L:5673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:60
L:5675 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:120
L:5677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:180
L:5679 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:240
L:5681 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:300
L:5683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:360
L:5685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:420
L:5687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:480
L:5982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
L:5984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:60
L:5986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:120
L:5988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:180
L:5990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:240
L:5992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:300
L:5994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:360
L:6088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:120
L:6104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:600
L:6106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:660
L:6108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:720
L:6110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:96 after pos.:780
L:6144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:0
L:6166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:0
L:6178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:360
L:6232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:0
L:6234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:60
L:6236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:120
L:6263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:120
```

7/27/04